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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,007	10/30/2003	Sanjiv Nanda	030549	1427

23696 7590 05/05/2006

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EXAMINER

AMINZAY, SHAIMA Q

ART UNIT	PAPER NUMBER
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2618

DATE MAILED: 05/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/699,007	Applicant(s) NANDA ET AL.	
	Examiner Shaima Q. Aminzay	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 October 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

2. Claim 2, 3, 11, 12, 16, 17, 21, 24, 28, 31, and 32 are objected under 37 CFR 1.75(c) as being improper, the phrase "second remote terminal" in claims 2, 3, 11, 13, 16, 24, 28, 31 and 32 needs to be clarified, in the recited limitations previously there is no mention of "first remote terminal"; the phrase "second incoming pilot signal" in claims 11, and 12 needs to be clarified, in the recited limitations previously there is no mention of "first incoming pilot signal"; the phrase "second terminals" in claims 17, and 21 needs to be clarified, in the recited limitations previously there is no mention of "first terminals". Applicant's correction is required.

Claim Rejections – 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

(a) The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 11-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant is required to make correction.

Claim 11 is depended of claim 10, the limitations of the “processor” are part of the dependent claim 10, however, claim 11 discusses the limitations of the “receiver”, the “receiver” limitations are discussed in independent claim 1, therefor claim 11 is rejected. For the sake of examining the claim on the merit, examiner will assume that claim 11 is dependent of independent claim 1. Applicant is required to make correction.

Claim 12 is depended of claim 11, the limitations of the “receiver” are part of the dependent claim 11, however, claim 12 discusses the limitations of the “processor”, the “processor” limitations are discussed in independent claim 1, therefor, claim 12 is rejected. For the sake of examining the claim on the merit, examiner will assume that claim 12 is dependent of independent claim 1. Applicant is required to make correction.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Periyalwar (Periyalwar et al., US Publication 2004/0192,204) in view of Feder (Feder et al., US Publication 2005/0239,491).

Regarding claim 1, Periyalwar discloses a module, comprising: a receiver configured to listen for a period of time for an incoming pilot signal from a remote terminal that exceeds a *[threshold]* power level (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0041], [0057], [0062], [0064], [0085], lines 51-65*)); and a processor configured to operate under control of the remote terminal if the receiver detects such incoming pilot signal within the time period (*see for example, paragraph [0041], [0042], [0057], [0058], [0062], [0063], [0064], [0068], and [0073]*), and operate independently of the remote terminal if such incoming pilot signal is not detected by the receiver within the time period (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through*

[0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65), such independent operation including enabling a pilot signal transmission (see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65).

Periyalwar does not specifically teach threshold, however, Periyalwar teaches the power limitations and power levels (see for example, [0041], [0057], [0062], [0064], [0085], lines 51-65)).

In a related art dealing with wireless network (see for example, Figures 1-2, paragraph [0003] through [0007], [0014]), Feder teaches threshold (see for example, paragraph [0014], lines 1-18, [0016]-[0017], [0020], lines 1-22, [0030], lines 1-20).

It would have been obvious to one of ordinary skill in the art at the time invention was made to have included Feder's threshold into Periyalwar communication system to provide wireless network communication system with "reduction of the transmission power," "so as to promote system efficiency," increase of power efficiency, "decrease of interference to the receivers" (Periyalwar, paragraph [0019], lines 3-7), and "to improve system performance and increase system capacity by controlling the power levels transmitted by the wireless units and/or the base stations" (Feder, see for example, paragraph [0008], lines 1-8).

Regarding claim 15, Periyalwar discloses a method of communications, comprising: listening for a period of time for an incoming pilot signal from a remote terminal that exceeds a *[threshold]* power level (see for example, *Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0041], [0057], [0062], [0064], [0085], lines 51-65*) for the purpose of acquiring such incoming pilot signal and operating under control of the remote terminal (see for example, *paragraph [0041], [0042], [0057], [0058], [0062], [0063], [0064], [0068], and [0073]*); determining that such incoming pilot signal has not been acquired within the time period (see for example, *Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65*); and operating independently of the remote terminal (see for example, *Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65*), such independent operation including transmitting a pilot signal (see for example, *Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65*).

Periyalwar does not specifically teach threshold, however, Periyalwar teaches the power limitations and power levels (*see for example, [0041], [0057], [0062], [0064], [0085], lines 51-65*).

In a related art dealing with wireless network (*see for example, Figures 1-2, paragraph [0003] through [0007], [0014]*), Feder teaches threshold (*see for example, paragraph [0014], lines 1-18, [0016]-[0017], [0020], lines 1-22, [0030], lines 1-20*).

It would have been obvious to one of ordinary skill in the art at the time invention was made to have included Feder's threshold into Periyalwar communication system to provide wireless network communication system with "reduction of the transmission power," "so as to promote system efficiency," increase of power efficiency, "decrease of interference to the receivers" (Periyalwar, *paragraph [0019], lines 3-7*), and "to improve system performance and increase system capacity by controlling the power levels transmitted by the wireless units and/or the base stations" (Feder, *see for example, paragraph [0008], lines 1-8*).

Regarding claim 23, Periyalwar discloses a module, comprising: means for listening for a period of time for an incoming pilot signal from a remote terminal that exceeds a threshold power level (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0041], [0057], [0062],*

[0064], [0085], lines 51-65)); means for operating under control of the remote terminal if such incoming pilot signal is detected within the time period (see for example, paragraph [0041], [0042], [0057], [0058], [0062], [0063], [0064], [0068], and [0073]); and means for operating independently of the remote terminal if such incoming pilot signal is not detected within the time period (see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65), such independent operation including enabling a pilot signal transmission (see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65).

Periyalwar does not specifically teach threshold, however, Periyalwar teaches the power limitations and power levels (see for example, [0041], [0057], [0062], [0064], [0085], lines 51-65)).

In a related art dealing with wireless network (see for example, Figures 1-2, paragraph [0003] through [0007], [0014]), Feder teaches threshold (see for example, paragraph [0014], lines 1-18, [0016]-[0017], [0020], lines 1-22, [0030], lines 1-20).

It would have been obvious to one of ordinary skill in the art at the time invention was made to have included Feder's threshold into Periyalwar

communication system to provide wireless network communication system with "reduction of the transmission power," "so as to promote system efficiency," increase of power efficiency, "decrease of interference to the receivers" (Periyalwar, *paragraph [0019], lines 3-7*), and "to improve system performance and increase system capacity by controlling the power levels transmitted by the wireless units and/or the base stations" (Feder, *see for example, paragraph [0008], lines 1-8*).

Regarding claim 27, Periyalwar discloses computer readable media embodying a program of instructions executable by a computer program to perform a method of communications (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0063], and [0068]*), the method comprising: listening for a period of time for an incoming pilot signal from a remote terminal that exceeds a threshold power level (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0041], [0057], [0062], [0063], [0064], , [0068], [0085], lines 51-65*) for the purpose of acquiring such incoming pilot and operating under control of the remote terminal (*see for example, paragraph [0041], [0042], [0057], [0058], [0062], [0063], [0064], [0068], and [0073]*); determining that such incoming pilot signal has not been acquired within the time period (*see for example, Figures 1-9, Abstract, lines 9-12,*

paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65); and operating independently of the remote terminal (see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65), such independent operation including transmitting a pilot signal (see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65).

Periyalwar does not specifically teach threshold, however, Periyalwar teaches the power limitations and power levels (see for example, [0041], [0057], [0062], [0064], [0085], lines 51-65)).

In a related art dealing with wireless network (see for example, Figures 1-2, paragraph [0003] through [0007], [0014]), Feder teaches threshold (see for example, paragraph [0014], lines 1-18, [0016]-[0017], [0020], lines 1-22, [0030], lines 1-20).

It would have been obvious to one of ordinary skill in the art at the time invention was made to have included Feder's threshold into Periyalwar communication system to provide wireless network communication system with "reduction of the transmission power," "so as to promote system efficiency,"

increase of power efficiency, "decrease of interference to the receivers" (Periyalwar, *paragraph [0019], lines 3-7*), and "to improve system performance and increase system capacity by controlling the power levels transmitted by the wireless units and/or the base stations" (Feder, *see for example, paragraph [0008], lines 1-8*).

Regarding claim 31, Periyalwar discloses a method of communications, comprising: listening for a period of time to acquire an incoming pilot signal from a remote terminal (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0041], [0057], [0062], [0064], [0085], lines 51-65*); determining that such incoming pilot signal has been acquired within the time period (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65*); exchanging signaling messages with the remote terminal once such incoming pilot signal has been acquired (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0038], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65*); enabling a pilot signal transmission for the purpose of operating independently of the remote terminal (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005],*

lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65); and [registering] a plurality of second remote terminals that acquire the transmitted pilot signal (see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65), the second remote terminals being previously [registered] with the remote terminal prior to the exchange of signaling messages (see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0038], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65).

Periyalwar does not specifically teach register, however, Periyalwar teaches identifying and making decisions to allow transmission (see for example, Figures 1-9, paragraph [0039], [0062], [0076]).

In a related art dealing with wireless network (see for example, Figures 1-2, paragraph [0003] through [0007], [0014]), Feder teaches register (see for example, paragraph [0020], lines 1-22, [0028], lines 1-13, [0033], lines 1-18).

It would have been obvious to one of ordinary skill in the art at the time invention was made to have included Feder's register into Periyalwar communication system to provide wireless network communication system with "reduction of the transmission power," "so as to promote system efficiency,"

increase of power efficiency, "decrease of interference to the receivers" (Periyalwar, *paragraph [0019], lines 3-7*), and "to improve system performance and increase system capacity by controlling the power levels transmitted by the wireless units and/or the base stations" (Feder, *see for example, paragraph [0008], lines 1-8*).

Regarding claim 32, Periyalwar discloses a method of communications, comprising: a receiver configured to listen for a period of time to acquire an incoming pilot signal from a remote terminal (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0041], [0057], [0062], [0064], [0085], lines 51-65*); and a processor configured to acquire such incoming signal if the receiver detects such incoming pilot signal within the time period (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65*), exchange signaling messages with the remote terminal once such incoming pilot signal has been acquired (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0038], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65*), enable a pilot signal transmission for the purpose of operating independently of the remote

terminal (see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65), and [register] a plurality of second remote terminals that acquire the transmitted pilot signal (see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65), the second remote terminals being previously [registered] with the remote terminal prior to the exchange of signaling messages (see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0038], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65).

In a related art dealing with wireless network (see for example, Figures 1-2, paragraph [0003] through [0007], [0014]), Feder teaches register (see for example, paragraph [0020], lines 1-22, [0028], lines 1-13, [0033], lines 1-18).

It would have been obvious to one of ordinary skill in the art at the time invention was made to have included Feder's register into Periyalwar communication system to provide wireless network communication system with "reduction of the transmission power," "so as to promote system efficiency," increase of power efficiency, "decrease of interference to the receivers" (Periyalwar, paragraph [0019], lines 3-7), and "to improve system performance

and increase system capacity by controlling the power levels transmitted by the wireless units and/or the base stations" (Feder, *see for example, paragraph [0008], lines 1-8*).

Regarding claims 2 and 16, Periyalwar in view of Feder teach all the limitations of claims 1, 15, and further, Periyalwar teaches wherein the processor is further configured to establish a communications link with a second remote terminal that acquires the transmitted pilot signal (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65*).

Regarding claims 3, 17, Periyalwar in view of Feder teach all the limitations of claims 1, 15, further, Periyalwar teaches wherein the processor is further configured *[to register]* each of a plurality of second remote terminals that acquire the transmitted pilot signal (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65*), and further, Feder teaches the register (*see for example, paragraph [0020], lines 1-22, [0028], lines 1-13, [0033], lines 1-18*).

Regarding claims 4, 18, Periyalar in view of Feder teach all the limitations of claims 3, 17, further, Feder teaches wherein the processor is further configured to manage the number of terminal registrations (*see for example, paragraph [0020], lines 1-22, [0028], lines 1-13, [0033], lines 1-18*).

Regarding claims 5, 19, Periyalar in view of Feder teach all the limitations of claims 4, 18, further, Periyalar teaches wherein the processor is further configured to manage the number of terminal *[registrations]* by adjusting the power level of the pilot signal transmission (*see for example, [0041], [0057], [0062], [0064], [0085], lines 51-65*)), and further, Feder teaches register (*see for example, paragraph [0014], [0020], lines 1-22, [0022], [0028], lines 1-13, [0030], [0033], lines 1-18*).

Regarding claims 6, 20, Periyalar in view of Feder teach all the limitations of claims 3, 17, further, Feder teaches wherein the processor is further configured to receive feedback from each of the registered terminals and designate one or more of the registered terminals to support communications with unregistered terminals based on the feedback (*see for example, paragraph [0014], [0020], lines 1-22, [0022], [0028], lines 1-13, [0030], [0033], lines 1-18*).

Regarding claims 7, 21, Periyalar in view of Feder teach all the limitations of

claims 6, 20, further, Feder teaches wherein the feedback provided by each of the registered terminals is an indicator of the transmitted pilot signal strength measured at its respective registered terminals (*see for example, paragraph [0014], [0020], lines 1-22, [0022], [0028], lines 1-13, [0030], [0033], lines 1-18*).

Regarding claims 8, 22, Periyalwar in view of Feder teach all the limitations of claims 1, 17, further, Feder teaches wherein the processor is further configured to receive a request to communicate from an unregistered terminal and assign one of the registered terminals to communicate with the unregistered terminal (*see for example, paragraph [0014], [0020], lines 1-22, [0022], [0028], lines 1-13, [0030], [0033], lines 1-18*).

Regarding claims 9, 26, 30, Periyalwar in view of Feder teach all the limitations of claims 1, 23, 27 further, Periyalwar teaches wherein the processor is further configured to set the *[threshold]* power level as a function of a minimum data rate that can be supported with the remote terminal (*see for example, [0041], [0057], [0062], [0064], [0085], lines 51-65*), and further, Feder teaches the threshold (*see for example, paragraph [0014], lines 1-18, [0016]-[0017], [0020], lines 1-22, [0030], lines 1-20*).

Regarding claim 10, Periyalwar in view of Feder teach all the limitations of claim 1, further, Periyalwar teaches wherein the processor is further configured to

register with the remote terminal if the receiver detects such incoming pilot signal within the time period (*see for example, paragraph [0041], [0042], [0057], [0058], [0062], [0063], [0064], [0068], and [0073]*).

Regarding claim 11, Periyalwar in view of Feder teach all the limitations of claim 1, further, Periyalwar teaches wherein the receiver is further configured to listen for a second incoming pilot signal from a second remote terminal not registered with the remote terminal (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0041], [0057], [0062], [0064], [0085], lines 51-65*)), and wherein the processor is further configured to establish a communications link with the second remote terminal if the receiver detects the second incoming pilot signal (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65*).

Regarding claim 12, Periyalwar in view of Feder teach all the limitations of claim 1, further, Periyalwar teaches wherein the processor is further configured to schedule the receiver to listen for the second incoming pilot signal under control of the remote terminal (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs*

[008] through [0012], [0013] through [0017], [0023], [0039], [0044], [0065], [0069], [0067], [0085], lines 9-29, lines 51-65).

Regarding claim 13, Periyalwar in view of Feder teach all the limitations of claim 10, further, Periyalwar teaches wherein the processor is further configured to establish a communications link with a second remote terminal not registered with the remote terminal under direction of the remote terminal (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0041], [0057], [0062], [0064], [0085], lines 51-65*)).

Regarding claim 14, Periyalwar in view of Feder teach all the limitations of claim 1, further, Periyalwar teaches wherein the period of time the receiver listens for such incoming pilot signal is a function of the capabilities of the module (*see for example, Figures 1-9, Abstract, lines 9-12, paragraph [0005], lines 1-13, [0006], lines 1-13, [0007], lines 1-8, paragraphs [008] through [0012], [0013] through [0017], [0041], [0057], [0062], [0064], [0085], lines 51-65*)).

Regarding claims 24, 28, Periyalwar in view of Feder teach all the limitations of claims 23, 27, further, Feder teaches registering a plurality of second remote terminals that acquire the transmitted pilot signal teaches the register (*see for example, paragraph [0020], lines 1-22, [0028], lines 1-13, [0033], lines 1-18*)).

Regarding claims 25, 29, Periyalwar in view of Feder teach all the limitations of claims 24, 28, further, Periyalwar teaches managing the number of terminal registrations by adjusting the power level of the pilot signal transmission (*see for example, [0041], [0057], [0062], [0064], [0085], lines 51-65*)), and further, Feder teaches register (*see for example, paragraph [0014], [0020], lines 1-22, [0022], [0028], lines 1-13, [0030], [0033], lines 1-18*)).

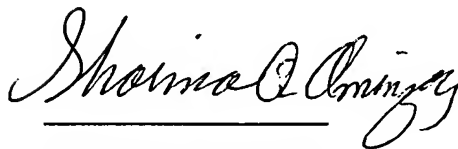
Conclusion

The prior art made of record considered pertinent to applicant's disclosure, see PTO-892 form.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaima Q. Aminzay whose telephone number is 571-272-7874. The examiner can normally be reached on 7:00 AM -5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

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Shaima Q. Aminzay
(Examiner)

April 25, 2006


NAY MAUNG
SUPERVISORY PATENT EXAMINER

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